

Warm Up # 9-1

1. Two students are chosen at random from a group of 2 girls and 5 boys. Find the probability that the two chosen will be:

a) two boys

b) the two oldest

2. Draw a table of outcomes (lattice diagram) for when two die are tossed and the results are added. Use your table to find the probability of getting a sum:

a) of 11

b) of 8 or 9

c) less than 6

Turn in hardcopy of:

Draft #1 - Introduction and Definitions

If you are collecting Primary data using a survey: You must submit your survey draft to be approved before you distribute it.

If you were absent, join at Turnitin.com

Class ID: 16652767 Key: Nicholson

Your submission file name:

Your full name - Math IA

Review:

If event A and event B are independent,

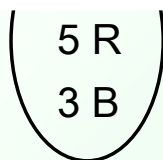
$$\text{then } P(A \text{ and } B) = P(A) \cdot P(B)$$

$$\cap$$

If they are dependent events, then the probability of the second event has to be adjusted accordingly before you multiply.

If there is more than one way for the compound events to occur, you add the probabilities of the different ways together.

Bag of Marbles, with 5 red and 3 blue:



2 are drawn simultaneously,
find the probability that at
least one is red. = $1 - P(BB)$

$$P(\text{one is red}) + P(\text{both are red})$$

$$P(RB) + P(BR) + P(RR)$$

$$\frac{5}{8} \cdot \frac{3}{7} + \frac{3}{8} \cdot \frac{5}{7} + \frac{5}{8} \cdot \frac{4}{7}$$

$$\frac{50}{56}$$

$$\boxed{\frac{25}{28}}$$

$$1 - \left(\frac{3}{8} \cdot \frac{2}{7} \right)$$

$$\frac{28}{28} - \frac{3}{28}$$

$$\boxed{\frac{25}{28}}$$

Classwork:

9E p. 277, # 1, 2, 8

HW: 9E p. 277, # 3 - 7 (skip 5)

9F p. 279, # 1, 2

HW Quiz tomorrow: pgs. 228, 229, 266, 268,
and Thursday's p. 269-274

Next test: Friday, Nov. 3

Sets, Venn Diagrams and Probability